## **CLAIMS**

 A phase change-type memory element comprising: two or more electrodes provided through an insulating layer;

an exposed surface on which at least a part of the insulating layer and at least a part of each of the electrodes are exposed; and

a phase change recording material layer provided, on said exposed surface, in contact with said at least two electrodes.

- 2. The phase change-type memory element according to claim 1, wherein said exposed surface is constituted by at least one of a plane surface, a multiplane surface, and a curved surface.
- 3. The phase change-type memory element according to claim 1, wherein the phase change recording material layer has a thickness in the range of 1 to 1,000 nm.
- 4. The phase change-type memory element according to claim 1, wherein the insulating layer interposed between a pair of the electrodes constituting one memory area has a thickness in the range of 10 to 1,000 nm.
- 5. The phase change-type memory element according to any one of claims 1 to 4, wherein the phase change recording material layer contains at least one chalcogenide.
- 6. The phase change-type memory element according to any one of claims 1 to 4, wherein the phase change recording material layer is formed of an organic material.
- 7. The phase change-type memory element according to claim 1, wherein a barrier layer and/or a heat control layer are provided between the exposed surface and the phase change recording material layer.
- 8. A process for producing a phase change-type memory element, comprising the steps of:

providing two or more electrodes opposite to each

other through an insulating material;

forming an exposed surface on which at least a part of the insulating material and at least a part of each of the electrodes are exposed; and

forming a phase change recording material layer on the exposed surface so as to be in contact with at least two of the electrodes.